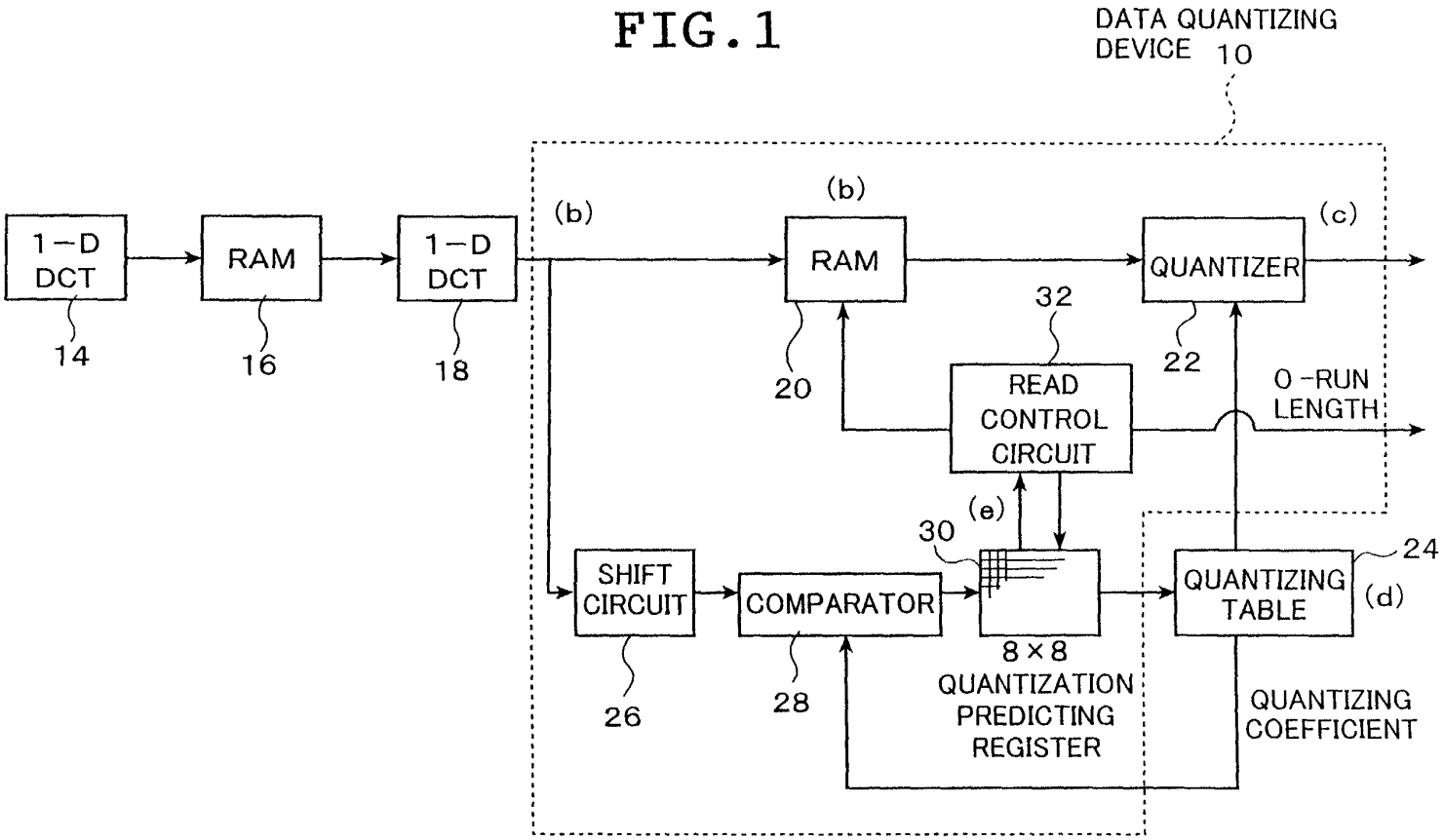
JP05235780A1

FIG. 1



# FIG. 2

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| (b) | 260, | -79, | 0, | -8, | -2, | -3, | -4, | 1, ··· |
| 2×\|(b)\| | 520, | 158, | 0, | 16, | 4, | 6, | 8, | 2, ··· |
| (d) | 16, | 12, | 14, | 14, | 18, | 24, | 49, | 72, ··· |
| DECIDED RESULT OF COMPARISON | 1, | 1, | 0, | 1, | 0, | 0, | 0, | 0, ··· |

# FIG. 3

(e) PREDICTING REGISTER

$$\begin{bmatrix} 1 & 1 & 1 & 0 & 0 & 0 & 0 & 0 \\ 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{bmatrix}$$

# FIG. 4

| | 0-RUN LENGTH | (b) | (c) |
|---|---|---|---|
| 1 | 0 | 260 | 16 |
| 2 | 0 | 49 | 4 |
| 3 | 0 | -79 | -7 |
| 4 | 1 | 36 | 3 |
| 5 | 0 | -16 | -2 |
| 6 | 2 | -8 | -1 |
| 7 | 0 | -8 | -1 |
| 8 | EOB | | |

0 754 813 · 0 254 504

TOSHIBA CHIP

FIG. 5

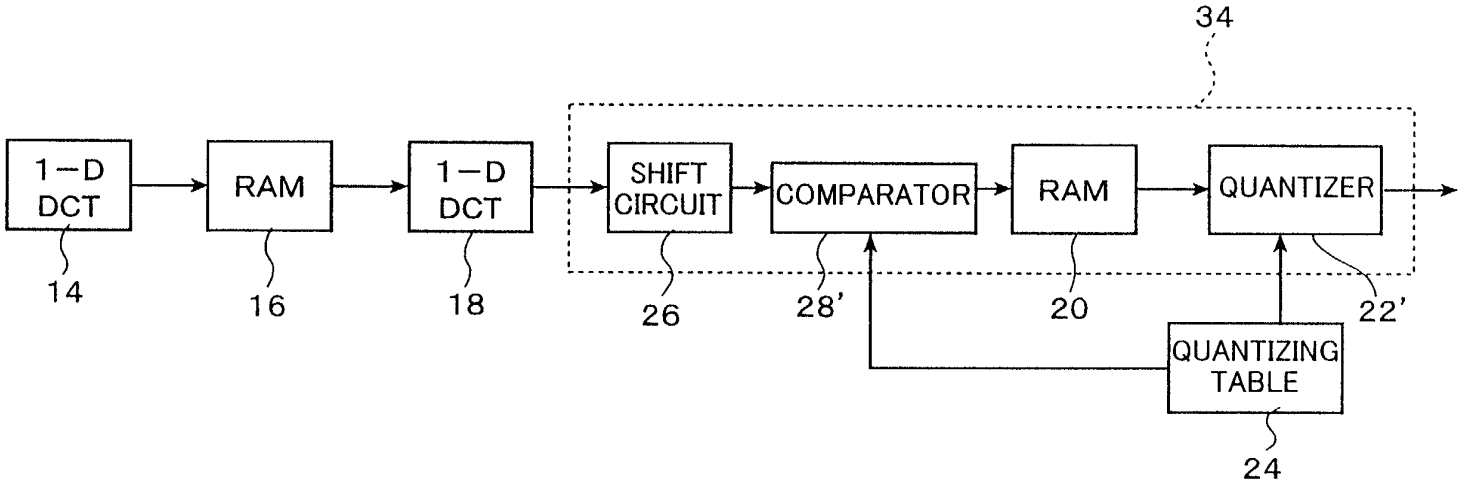
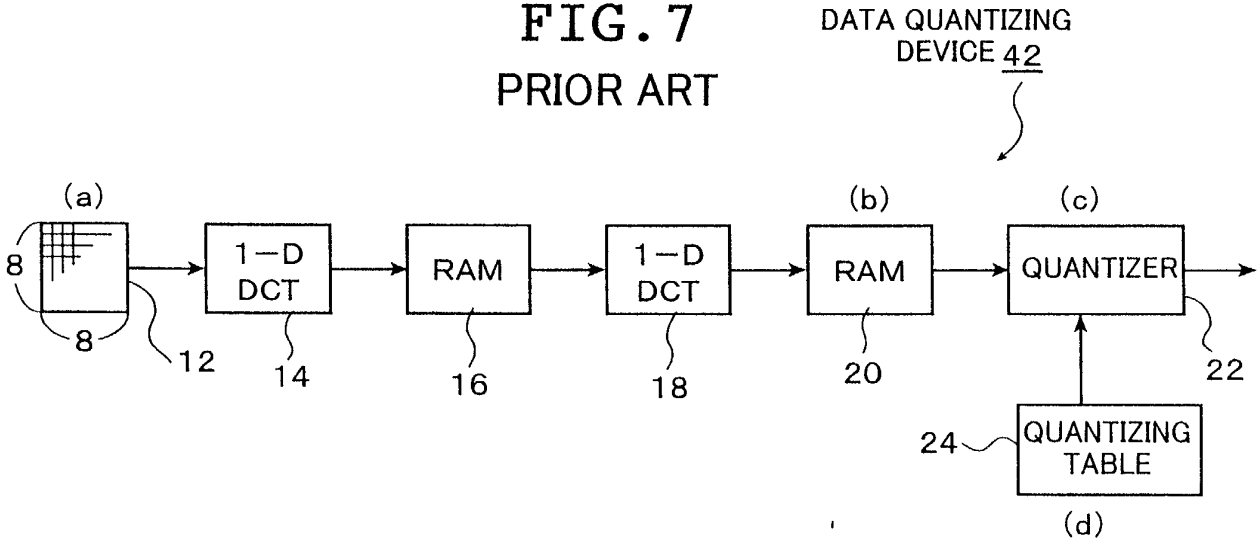



FIG. 7
PRIOR ART



# FIG. 8

(a) 8 × 8 PIXEL BLOCK

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 159 | 153 | 158 | 152 | 140 | 138 | 132 | 132 |
| 164 | 162 | 162 | 157 | 151 | 142 | 134 | 132 |
| 167 | 168 | 161 | 160 | 158 | 145 | 139 | 134 |
| 164 | 168 | 161 | 166 | 162 | 152 | 149 | 141 |
| 171 | 166 | 168 | 167 | 163 | 162 | 157 | 151 |
| 173 | 164 | 169 | 170 | 166 | 166 | 162 | 161 |
| 175 | 169 | 172 | 176 | 174 | 172 | 174 | 166 |
| 173 | 172 | 175 | 173 | 180 | 181 | 177 | 172 |

DCT

(b) DCT COEFFICIENT

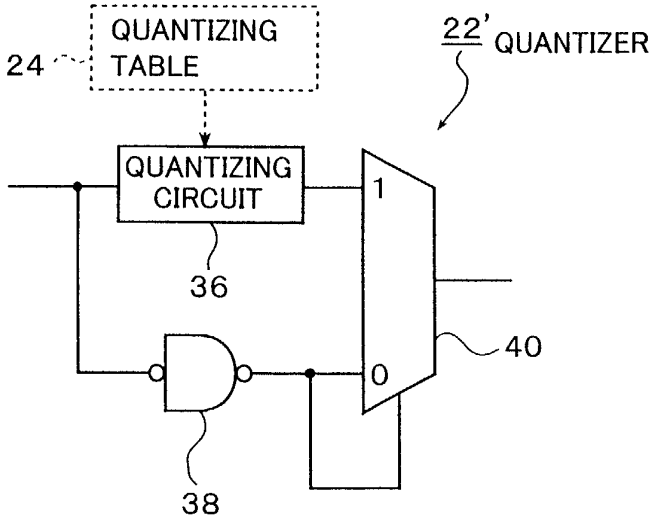
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 260 | 49 | −16 | 5 | 2 | 4 | 0 | 1 |
| −79 | 36 | −2 | −7 | 1 | −3 | −1 | −2 |
| 0 | −8 | 3 | −2 | −2 | 1 | 5 | 1 |
| −8 | −4 | 5 | −4 | 1 | 7 | 6 | −2 |
| −2 | −6 | −1 | 0 | −4 | −1 | 0 | −1 |
| −3 | −2 | −1 | −1 | 1 | 2 | −5 | −1 |
| −4 | −1 | 1 | 0 | 0 | −2 | 2 | 0 |
| 1 | 1 | 1 | 1 | −1 | 1 | 0 | 0 |

QUANTIZATION

(c) QUANTIZED DCT COEFFICIENT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 16 | 4 | −2 | 0 | 0 | 0 | 0 | 0 |
| −7 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | −1 | 0 | 0 | 0 | 0 | 0 | 0 |
| −1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(d) QUANTIZING TABLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 16 | 11 | 10 | 16 | 24 | 40 | 51 | 61 |
| 12 | 12 | 14 | 19 | 26 | 58 | 60 | 55 |
| 14 | 13 | 16 | 24 | 40 | 57 | 69 | 56 |
| 14 | 17 | 22 | 29 | 51 | 87 | 80 | 62 |
| 18 | 22 | 37 | 56 | 68 | 109 | 103 | 77 |
| 24 | 35 | 55 | 64 | 81 | 104 | 113 | 92 |
| 49 | 64 | 78 | 87 | 103 | 121 | 120 | 101 |
| 72 | 92 | 95 | 98 | 112 | 100 | 103 | 99 |

# FIG. 6